



VAAGDEVI COLLEGE OF ENGINEERING
UGC AUTONOMOUS
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

FDP on Renewable Energy Technologies and Distributed Generation

Electrical & Electronics Engineering Department has organized “**FDP on Renewable Energy Technologies and Distributed Generation**” dated 21-04-2016 to 30-04-2016 by Dr. K Prakash and Mr. P. Sadanandam for faculty, the third and final year B.Tech Students. Dr. M Sydulu, Professor, NIT Warangal has given inaugural lecture series. Number of Participants: 21

The programme is started with welcome note by the Principal Dr. K. Prakash followed by the lecture session.

During this workshop the following points were discussed:

- Various renewable energy technologies.
- Various distribution generation sources.
- Placement and sizing of DGs.
- Eliminating the uncertainties involved in DG output.
- Understanding uncertainties on renewable energy

The objectives of the programme are:

- To enable the participants to learn and conceptualize renewable energy technologies and distribution generation systems.
- To enhance the learning capabilities of the participants in grid integration issues of above energy sources.
- To empower the participants with usage of MATLAB tools for grid integration and optimization.

Outcomes of the programme:

- Gained knowledge on various renewable energy technologies and distribution generation systems
- To encourage the participants to offer a course in renewable energy technologies and distribution generation systems.
- To enable the participants to learn new methods for integration and optimization of these technologies.

REGISTRATION FORM

- Name:
- Designation:
- Qualification:
(Degree, Specialization)
- Experience:
- Institution:
- Address for communication:

Phone: Mobile:
Email Id (compulsory):

7. Payment Details :

DD. No. : Date:
Bank : Amount: Rs. 500.00

8. Accommodation Required : Yes / No

Date: Signature of the Applicant

SPONSORSHIP CERTIFICATE

Ms./Mr./Dr./Prof. _____
is a bonafide teacher of our college. He / She is
sponsored to attend Faculty Development Program on
"Renewable Energy Technologies and Distributed
Generation" during 21st, 27th April, 2016.

Place:
Date: Signature of the Principal
with seal

TECHNICAL ADVISORY COMMITTEE:

Dr. M. Sydulu, NIT, Warangal.
Dr. D.V.S.S. Siva Sarma, NIT, Warangal.
Dr. Y. T. Somasekhar, NIT, Warangal.
Dr. S. Srinivasa Rao, NIT, Warangal.
Dr. N. Vishwanathan, NIT, Warangal.
Dr. S. Srinivas, IIT, Madras
Dr. J. Anarnath, JNTU CEH, Hyderabad.
Dr. K. Siva Kumar, IIT, Hyderabad.
Dr. B. Venugopal Reddy, NIT, Goa.
Dr. Mithun Bhaskar, Madhworks, Bangalore.
Dr. M. Sushma, JNTU CEH, Hyderabad.
Dr. P. Srinivas, Osmania University, Hyd.

ORGANIZING COMMITTEE MEMBERS

Mr. N.Mahender, Assoc. Professor
Mr. P.PurnaChander Rao, Assoc. Professor
Mr. T.Venu Gopal, Asst. Professor
Mr. B.Nagaraju, Asst. Professor
Mr. T.Rajesh, Asst. Professor
Mr. V. Satyanarayana, Asst. Professor
Ms. S.Swarthi, Asst. Professor
Mr. A.Satesh Kumar, Asst. Professor
Mr. D.Ramesh, Asst. Professor
Ms. M.Swapna, Asst. Professor
Ms. P.Thanuja, Asst. Professor
Md. Yasin, Asst. Professor
Mr. B.Balu, Asst. Professor
Ms. K.Shravani, Asst. Professor

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VAAGDEVI COLLEGE OF ENGINEERING
Bollikunta, Warangal - 506 005

RENEWABLE ENERGY TECHNOLOGIES AND DISTRIBUTED GENERATION

(21st April-30th April, 2016)

Coordinator
Dr. K. Prakash
Professor, EEE Dept.

Co - Coordinator :
Mr. P. Sadanandam
Assoc. Professor, EEE Dept.



Organized by

Department of Electrical and
Electronics Engineering

VAAGDEVI COLLEGE OF ENGINEERING

(Affiliated to JNTUH, Hyd & Accredited by NBA)
P.O. Bollikunta, Warangal - 506005
Phone No : 0870 - 2865183, Fax No : (0870) 2865185
Website : www.vagdevieng.com

ABOUT THE INSTITUTE

Vaagdevi College of Engineering, Warangal was established in 1998 by Viswanthara Educational Society to meet the growing demand for manpower in the fields of emerging areas of Engineering and Technology. Initially four branches EEE, CSE, ECE & EIE were started. Subsequently IT, BT, MECH & Civil branches were added in the years 1999, 2002, 2009 & 2013 respectively. M.Tech. in Power Electronics & Computer Science and Engineering Programmes are sanctioned by the All India Council for Technical Education and they have been commenced.

Vaagdevi College of Engineering, Bollikunta, Warangal was conceived and developed with a view that it would fulfill its obligation towards promoting technical education in the backward region of Andhra Pradesh and serve the society at large.

The Institution is located in a sprawling area of 70 acres amidst picturesque surrounding. The Institution has well-established Laboratories, Library and Central Networking facility Digital Library, CP Mandawar Knowledge Centre. The Institution has organised three day International Symposium which is the first of its kind among all the Engineering Colleges affiliated to JNTU, Hyderabad.

Many students of different disciplines were selected by Skyam, Wipro, IBM, etc., through campus placements.

ABOUT THE DEPARTMENT

The B.Tech (EEE) course started in year 1998 with an initial intake of 60 students. In due course the strength has enhanced to 90 and presently the intake is 180. This is the first college in this region, to start M.Tech (Power Electronics) course among the affiliated colleges of JNTUH in the year 2004 and M.Tech. (Power Systems Control and Automation course) in the year of 2012.

The Department has well equipped laboratories for both B.Tech & M.Tech (PE & PSCA) courses. Most of the faculty are M.Tech degree holders from reputed organizations like NIT, WEL, Osmania University and JNTU. The Department encourages the faculty for higher studies. At present four faculty are pursuing their Ph.D. Senior faculty guide several B.Tech and M.Tech. students in their project work.

Department conducts MATLAB training, programmes for students regularly. Department encourages the faculty in participating and organizing the faculty orientation programmes regularly. Also motivates the faculty towards research activity and has a good number of publications in both National and International conferences and Journals.

ABOUT WARANGAL CITY :

The historical city of Warangal is the 5th biggest in the state of Andhra Pradesh and is an important educational cluster. Warangal, earlier known as Orugallu or EshwaraNagar was capital city of the great Kakatiya Kingdom, still retains its importance as a culture centre in Telangana region of Andhra Pradesh. There are many historical places in and around the city such as Fort Warangal, Thousand Pillar Temple, Bhadrakal Temple, Ramappa Temple along with beautiful scenic lakes of Ramappa, Pakhal and Lakshavaram. In addition to this there are wild life sanctuaries nearby and other places for the tourists.

ABOUT THE FDP :

The spectrum of power electronics applications is very wide. It is necessary to have the knowledge of recent developments in these areas for faculty of Engineering Colleges, R&D people and Engineering students. This program makes the rapid increase of Distributed Generation (DG) installations, Distributed Renewable electricity generation technologies etc.

RESOURCE PERSONS :

Resource persons are from IIT Madras, IIT Hyderabad, NIT Warangal, NIT Goa, Osmania University, JNTU Hyderabad, JNTU Jagtial, Mahabubnagar, Texas Instruments and General Electric.

ELIGIBILITY FOR PARTICIPATION :

The program is for the teachers of AICTE approved Engineering Colleges, Practising Engineers and Researchers in the field of Power Electronics & Drives. The selected participants, who attend the course will be paid TA as per rates (on producing tickets in originals) for outstation participants along with free boarding and lodging at institute Hostel / Hotels.

COURSE CONTENTS:

- Modelling and Control of Electrical Drives.
- Simulation of Power Converters and Drives.
- Scalar, Vector, DTC, Adaptive and Model Based Controllers.
- Multilevel Converters
- Power Quality Problems and Harmonic Reduction Techniques
- Introduction to DSP Processors.
- Architecture of TMS 320LF 2407 and TMS 320LF 2812.
- Implementation of Space Vector Modulation.
- Implementation of Asynchronous Sine-Triangular PWM Techniques.
- DSP Applications to Wind Energy Systems.
- Hybrid Electric Vehicles.
- DC - DC & Resonant Converters.
- Induction Heating.
- Hands on Lab Sessions.

HOW TO REGISTER

Registration form is available in the brochure or can be downloaded from the College website. Registration fee of Rs. 500/- (for faculty from AICTE approved institutions which is refundable on successful completion of program as per rules) may be sent to coordinator in the form of DD along with registration form duly sponsored by Head of the Institution. D.D. must be drawn in favour of "Principal, Vaagdevi College of Engineering, Bollikunta, Warangal" payable at Warangal. The completed form may be sent to :

The Coordinator
Faculty Development Program on
Renewable Energy Technologies And Distributed Generation
Department of Electrical & Electronics Engineering

Vaagdevi College of Engineering
Bollikunta, Warangal - 506 005, Andhra Pradesh.
Telephone No : 0870- 2565183, Fax : 2865185.

IMPORTANT DATES

Last date for receiving Application : 28-03-2016
Confirmation of Participation : 15-04-2016
Commencement of the Programme : 21-04-2016



ANNA UNIVERSITY

Bollikunta, Warangal-506 005
Autonomous


Department of Electrical and Electronics Engineering

Date: 20-April-2016.

FACULTY DEVELOPMENT PROGRAMME SCHEDULE **RENEWABLE ENERGY TECHNOLOGIES AND DISTRIBUTED GENERATION.**

S.No.	Timings/Date	9.30 AM to 11.00AM	11.00A M to 11.10A M	11.10AM to 12.40PM	12.40P M to 1.30P M	1.30PM to 3.00PM	3.00PM to 3.10PM	3.10PM to 4.00PM
1	21/04/2016	Inaugural session		Introduction to RET&DG. Dr. M. Sydulu, NIT, Warangal		Rapid increase of Distributed Generation (DG) installations Dr. D.V.S.S. Siva Sarma, NIT, Warangal		Renewable Energy(RE) sources Dr. S. Srinivasa Rao, NIT, Warangal
2	22/04/2016	Distributed versus centralized electricity systems Dr. N. Vishwanathan, NIT, Warangal		Distributed Renewable Electricity generation technologies Dr. S. Srinivas, IIT, Madras		Feature of the renewable energy based or micro sources based DG systems Dr. J. Anamath, JNTU CEH, Hyderabad		Renewable energy and DG grid integration Dr. K. Siva Kumar, IIT, Hyderabad
3	23/04/2016	Power electronics in grid integration Dr. B. Venugopal Reddy, NIT, Goa	TEA BREAK	Architecture and design principle,infrastructure, ICT, storage and smart metering technologies Dr. MithunBaskar, Madhworks, Bangalore	LUNCH	Renewable Integration, Forecasting in smart grids Dr. M. Sushma, JNTU CEH, Hyderabad	TEA BREAK	Distributed generation and smart cities. Dr. P. Srinivas, Osmania University, Hyd
4	25/04/2016	Wind forecasting tools for grid stability Dr. D.V.S.S. Siva Sarma, NIT, Warangal		Future smart grid and smart city models Dr. K. Siva Kumar, IIT, Hyderabad		Voltage and frequency of the microgrid systems. Dr. S. Srinivas, IIT, Madras		Grid access and interconnection requirements Dr. J. Anamath, JNTU CEH, Hyderabad
5	26/04/2016	Subsidized fossil fuels Dr. M. Sushma, JNTU CEH, Hyderabad		Grid integration Dr. J. Anamath, JNTU CEH, Hyderabad		Wind and photovoltaic (PV) power generation. Dr. S. Srinivasa Rao, NIT, Warangal		Resistance from utilities Dr. N. Vishwanathan, NIT, Warangal

6	27/04/2016	Energy policy and optimal sizing and siting of DG will be emphasized. Dr. K. Siva Kumar, IIT, Hyderabad	Architecture and design principle Dr. N. Vishwanathan, NIT, Warangal	DG interfacing converters Dr. D.V.S.S. Siva Sarma, NIT, Warangal	Power quality in a microgrid Dr. D.V.S.S. Siva Sarma, NIT, Warangal
7	28/04/2016	Policy Issues and Options Dr. J. Anamath, JNTU CEH, Hyderabad	Balance financial innovation and regulation Dr. S. Srinivas, IIT, Madras	Rethink fossil fuel subsidies Dr. J. Anamath, JNTU CEH, Hyderabad	Build in-country capabilities Dr. D.V.S.S. Siva Sarma, NIT, Warangal
8	29/04/2016	Series Variable Frequency Drives. Dr. Mithun Bhaskar, Mathworks, Bangalore	Applications of over current protection in the adjustable frequency drives. Dr. B. Venugopal Reddy, NIT, Goa	Basic problems caused by shaft voltages and bearing currents. Dr. M. Sushma, JNTU CEH, HYDERABAD	Importance of ASD and its applications. Dr. K. Shiva Kumar, IIT, Hyderabad
9	30/04/2016	Renewable energy and DG grid integration Dr. K. Prakash, VCE, Warangal	Renewable energy and DG grid integration Dr. K. Prakash, VCE, Warangal	feedback	


 Head of the Department
Head of the Department
 ELECTRICAL & ELECTRONICS ENGINEERING
 Vaagdevi College of Engineering,
 Bollikunta, Warangal (U) T.S. 506005